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Statistical sampling of microarchitecture simulation

Roland E. Wunderlich, Thomas F. Wenisch, Babak Falsafi, James C. Hoe

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Current software-based microarchitecture simulators are many orders of magnitude slower than the hardware they simulate. Hence, most microarchitecture design studies draw their conclusions from drastically truncated benchmark simulations that are often inaccurate and misleading. This article presents the Sampling Microarchitecture Simulation (SMARTS) framework as an approach to enable fast and accurate performance measurements of full-length benchmarks. SMARTS accelerates simulation by selective ...

Keywords: Microarchitecture simulation, SPEC CPU2000 simulation, cold-start bias, simulation sampling, statistical sampling

SMARTS: accelerating microarchitecture simulation via rigorous statistical sampling



Roland E. Wunderlich, Thomas F. Wenisch, Babak Falsafi, James C. Hoe

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Current software-based microarchitecture simulators are many orders of magnitude slower than the hardware they simulate. Hence, most microarchitecture design studies draw their conclusions from drastically truncated benchmark simulations that are often inaccurate and misleading. This paper presents the Sampling Microarchitecture Simulation (SMARTS) framework as an approach to enable fast and accurate performance measurements of full-length benchmarks. SMARTS accelerates simulation by selectively ...

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